

	L #	Search Text	DBs	Time Stamp	Hits
1	L1	ogino.in. and akira.in.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/07 15:14	551
2	L2	sony.asn.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/07 15:15	329401
3	L3	L1 and L2	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/07 15:15	225

	L #	Search Text	DBs	Time Stamp	Hits
4	L4	713/176.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/07 15:15	2658
5	L5	L3 and L4	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/07 15:15	9
6	L6	L5 and "content distribution" near "embedding" near "watermark"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/07 15:15	0

	L #	Search Text	DBs	Time Stamp	Hits
7	L7	(content distribution) near (embed\$4) near (user identification)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/07 15:19	75
8	L8	"content distribution" near "embedding" near "watermark"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/07 15:16	0
9	L9	(definition) adj (flag) near (watermark)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/07 15:16	1

	L #	Search Text	DBs	Time Stamp	Hits
10	L10	L7 and L9	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/07 15:16	1
11	L11	L7 and (definition flag)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/07 15:17	22
12	L12	L11 and "definition flag"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/07 15:17	1

	L #	Search Text	DBs	Time Stamp	Hits
13	L13	L7 and "watermark"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/07 15:17	35
14	L14	L13 and "spreading modulation"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/07 15:17	1
15	L15	L14 and "illegal content"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/07 15:18	1

	L #	Search Text	DBs	Time Stamp	Hits
16	L16	L15 and "user identification"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2007/12/07 15:18	1
17	L17	713/168.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2007/12/07 15:18	2090
18	L18	713/168.ccls. and (content distribution) near (embed\$4) near (user identification)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2007/12/07 15:19	2

	L #	Search Text	DBs	Time Stamp	Hits
19	L19	726/32.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/07 15:19	127
20	L20	726/32.ccls. and (content distribution) near (embed\$4) near (user identification)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/07 15:19	2
21	L21	L18 and (judg\$5)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/07 15:20	0

	L #	Search Text	DBs	Time Stamp	Hits
22	L22	L20 and (judg\$5)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/07 15:20	2
23	L23	L16 and (judg\$5)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/12/07 15:20	1

# Interference Search

	L #	Search Text	DBs	Time Stamp	Hits
24	L24	content AND distribution AND network AND embedding AND converting.CLM.	US- PGPUB	2007/12/07 15:21	383
25	L25	content AND distribution AND network AND embedding AND converting AND user AND identification AND storage AND definition AND flag. CLM.	US- PGPUB	2007/12/07 15:22	15
26	L26	content AND distribution AND network AND embedding AND converting AND user AND identification AND storage AND definition AND flag AND watermark.CLM.	US- PGPUB	2007/12/07 15:22	7
27	L27	content AND distribution AND network AND embedding AND converting AND user AND identification AND storage AND definition AND flag AND watermark AND uniquely AND assigned.CLM.	US- PGPUB	2007/12/07 15:22	1
28	L28	content AND distribution AND network AND embedding AND converting AND user AND identification AND storage AND definition AND flag AND watermark AND encryption.CLM.	US- PGPUB	2007/12/07 15:22	40
29	L29	content AND distribution AND network AND embedding AND converting AND user AND identification AND storage AND definition AND flag AND watermark AND encryption AND decryption.CLM.	US- PGPUB	2007/12/07 15:23	6
30	L30	content AND distribution AND network AND embedding AND converting AND user AND identification AND storage AND definition AND flag AND watermark AND encryption AND decryption AND extraction.CLM.	US- PGPUB	2007/12/07 15:23	2

	L #	Search Text	DBs	Time Stamp	Hits
31	L31	content AND distribution AND network AND embedding AND converting AND user AND identification AND storage AND definition AND flag AND watermark AND encryption AND decryption AND extraction AND judging.CLM.	US- PGPUB	2007/12/07 15:23	1

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### **Content distribution control - Patent 20020078178**

More specifically, the signal containing embedded digital watermark data is .... The user terminal 1 has an identification data extraction unit 11 ...  
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user's privacy, the embedded information itself can be. encrypted using the user's ID ...  
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licenses are bound to the user and not the terminal they. use. This allows users to access the ..... watermark is embedded at the rate of 50 bps the average ...  
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### **EP1187048 Matsushita european software patent - Network content ...**

Content distribution system 10 has a user terminal 1, relay server 2, .... and the identification data embedded as the digital watermark can be extracted. ...  
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management. Either a DRM agent is embedded into the. terminal. or the DRM function ....  
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### **Experiment for Content Production with Content ID and MPEG-7**

program production; (2) to be able to extract watermark data from any ..... ID are automatically displayed on the same client terminal. User. WM Web server ...  
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identified as the responsible for the illegal **content distribution**. The following security mechanisms ...

The **embedded watermark** can be an unique identifier ...

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Relevance scale **1 Digital rights management for content distribution**

Qiong Liu, Reihaneh Safavi-Naini, Nicholas Paul Sheppard

January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 ACSW Frontiers '03****Publisher:** Australian Computer Society, Inc.Full text available:  [pdf\(224.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Transferring the traditional business model for selling digital goods linked to physical media to the online world leads to the need for a system to protect digital intellectual property. Digital Rights Management(DRM) is a system to protect high-value digital assets and control the distribution and usage of those digital assets. This paper presents a review of the current state of DRM, focusing on security technologies, underlying legal implications and main obstacles to DRM deployment with the ...

**Keywords:** DRM, digital content**2 Applying web oriented technologies to implement an adaptive spread spectrum watermarking procedure and a flexible DRM platform**

Franco Frattolillo, Salvatore D'Onofrio

January 2005 **Proceedings of the 2005 Australasian workshop on Grid computing and e-research - Volume 44 ACSW Frontiers '05****Publisher:** Australian Computer Society, Inc.Full text available:  [pdf\(595.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The advances in multimedia technologies have created opportunities for Internet pirates, who can copy multimedia documents and illegally distribute them, thus violating the legal rights of document owners or web content providers. Such a situation is an actual threat particularly for web content providers, which often have neither the technical competence nor the economical advantage to directly implement effective security services to combat the unauthorized trading of their distributed multime ...

**Keywords:** XML, digital rights management, watermarking, web services

3

Poster 3: content track: Light weight MP3 watermarking method for mobile terminals

 Koichi Takagi, Shigeyuki Sakazawa  
November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**

Publisher: ACM Press

Full text available:  pdf(117.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes an MP3 watermarking method that is applicable to a mobile terminal with limited computational resources. Considering that the embedded information is copyright information and metadata, which should be extracted before playing back, the watermark detection process should be executed quickly. However, conventional methods cannot detect a digital watermark at high speed. Thus, this paper proposes that scalefactor values in MP3 data be altered so as not to spoil audio quality. E ...

**Keywords:** MP3, mobile terminal, scalefactor, watermarking

**4** Information protection methods: Display-only file server: a solution against information theft due to insider attack

 Yang Yu, Tzi-cker Chiueh  
October 2004 **Proceedings of the 4th ACM workshop on Digital rights management DRM '04**

Publisher: ACM Press

Full text available:  pdf(311.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Insider attack is one of the most serious cybersecurity threats to corporate America. Among all insider threats, information theft is considered the most damaging in terms of potential financial loss. Moreover, it is also especially difficult to detect and prevent, because in many cases the attacker has the proper authority to access the stolen information. According to the 2003 CSI/FBI Computer Crime and Security Survey, theft of proprietary information was the single largest category of los ...

**Keywords:** access, digital rights management, information theft, insider attack

**5** Opportunities for watermarking standards

 Fred Mintzer, Gordon W. Braudaway, Alan E. Bell  
July 1998 **Communications of the ACM**, Volume 41 Issue 7

Publisher: ACM Press

Full text available:  pdf(672.37 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

**6** Computing curricula 2001

 September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available:  pdf(613.63 KB)  html(2.78 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**7** Agents, interactions, mobility, and systems (AIMS): A distributed content-based search engine based on mobile code

 Volker Roth, Ulrich Pilsdorf, Jan Peters  
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**

Publisher: ACM Press

Full text available: [pdf\(354.21 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current search engines crawl the Web, download content, and digest this content locally. For multimedia content, this involves considerable volumes of data. Furthermore, this process covers only publicly available content because content providers are concerned that they otherwise loose control over the distribution of their intellectual property. We present the prototype of our secure and distributed search engine, which dynamically pushes content based feature extraction to image providers. Th ...

**8 Behavioral synthesis techniques for intellectual property protection**

 Farinaz Koushanfar, Inki Hong, Miodrag Potkonjak  
July 2005 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**,  
Volume 10 Issue 3

Publisher: ACM Press

Full text available: [pdf\(439.81 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce dynamic watermarking techniques for protecting the value of intellectual property of CAD and compilation tools and reusable design components. The essence of the new approach is the addition of a set of design and timing constraints which encodes the author's signature. The constraints are selected in such a way that they result in a minimal hardware overhead while embedding a unique signature that is difficult to remove and forge. Techniques are applicable in conjunction with an ar ...

**Keywords:** Intellectual property protection, behavioral synthesis, watermarking

**9 Protected interactive 3D graphics via remote rendering**

 David Koller, Michael Turitzin, Marc Levoy, Marco Tarini, Giuseppe Croccia, Paolo Cignoni,  
Roberto Scopigno  
August 2004 **ACM Transactions on Graphics (TOG) , ACM SIGGRAPH 2004 Papers**  
**SIGGRAPH '04**, Volume 23 Issue 3

Publisher: ACM Press

Full text available: [pdf\(368.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Valuable 3D graphical models, such as high-resolution digital scans of cultural heritage objects, may require protection to prevent piracy or misuse, while still allowing for interactive display and manipulation by a widespread audience. We have investigated techniques for protecting 3D graphics content, and we have developed a remote rendering system suitable for sharing archives of 3D models while protecting the 3D geometry from unauthorized extraction. The system consists of a 3D viewer clien ...

**Keywords:** 3D models, digital rights management, remote rendering, security

**10 Robust FPGA intellectual property protection through multiple small watermarks**

 John Lach, William H. Mangione-Smith, Miodrag Potkonjak  
June 1999 **Proceedings of the 36th ACM/IEEE conference on Design automation DAC '99**

Publisher: ACM Press

Full text available: [pdf\(119.08 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** field programmable gate array (FPGA), intellectual property protection, watermarking

11 Watermaking three-dimensional polygonal models

 Ryutarou Ohbuchi, Hiroshi Masuda, Masaki Aono

November 1997 **Proceedings of the fifth ACM international conference on Multimedia MULTIMEDIA '97**

Publisher: ACM Press

Full text available:  pdf(1.69 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** copyright protection, data hiding, digital fingerprinting, digital watermarking, steganography, three-dimensional geometrical modeling, three-dimensional graphics

12 An abstract interpretation-based framework for software watermarking

 Patrick Cousot, Radhia Cousot

January 2004 **ACM SIGPLAN Notices , Proceedings of the 31st ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '04**, Volume 39 Issue 1

Publisher: ACM Press

Full text available:  pdf(171.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software watermarking consists in the intentional embedding of indelible stegosignatures or watermarks into the subject software and extraction of the stegosignatures embedded in the stegoprograms for purposes such as intellectual property protection. We introduce the novel concept of *abstract software watermarking*. The basic idea is that the watermark is hidden in the program code in such a way that it can only be extracted by an abstract interpretation of the (maybe non-standard) concre ...

**Keywords:** abstract interpretation, authentication, copyrights protection, fingerprinting, identification, intellectual property protection, obfuscation, software authorship, software watermarking, static analysis, steganography, stegoanalyst, stegoattacks, stegokey, stegomark, stegosignature, tamper-proofing, trustworthiness, validation watermarking

13 Session 3: XML applications: Regulating access to SMIL formatted pay-per-view movies

 movies

Naren Kodali, Duminda Wijesekera

November 2002 **Proceedings of the 2002 ACM workshop on XML security XMLSEC '02**

Publisher: ACM Press

Full text available:  pdf(331.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

XML [15] has become a standard format for information that moves within the World Wide Web. Previous work in securing XML documents concentrated mainly on textual documents. Those proposals are ineffective in the context of multimedia, which mostly comprises of some sensible combination of images, text, audio, and video. As multimedia constitutes a significant component of the traffic within the Internet, it requires to be secured. We propose an access control model and an encryption mechanism t ...

**Keywords:** SMIL, XML, access control, encryption, integrity, pay-per-view, smart card, synchronized multimedia

14 Signature hiding techniques for FPGA intellectual property protection

 John Lach, William H. Mangione-Smith, Miodrag Potkonjak

November 1998 **Proceedings of the 1998 IEEE/ACM international conference on**

**Computer-aided design ICCAD '98**

**Publisher:** ACM Press

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IEEE STD IEEE Standard

1. **Multimedia security in the distributed environment**  
*Liu Yongliang; Wen Gao; Shaohui Liu;*  
*Communications, 2004 and the 5th International Symposium on Multi-Dimens*  
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